BARNARD COLLEGE
Courses Recommended for the Minor in Environmental Science

Students wishing to minor in Environmental Science should have a plan approved by the Environmental Science Department Minor Advisor, Sedelia Rodriguez (srodrigu@barnard.edu) by the end of their junior year.

5 courses are required, meeting the following criteria:

* At least 3 of the 5 courses taken at Barnard/Columbia
* 1 laboratory science course
* 4 electives
	+ 3 credits per course or higher
	+ 3 courses at 3000 level or above
	+ At least 2 courses based in the natural sciences

Elective courses listed below may be substituted only with the approval of the Minor Advisor. Please note that many of the courses below are not offered every year.

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| --- | --- |
| Student Name:  | Major: Class of:  |
| E-mail:  | Phone:  |
| Adviser(s): | Meeting Dates: |

**Laboratory Science Courses**

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| **Course Titles** | **Course No.** | **Intended** | **Completed** |
| Introduction to Environmental Science I \*\* + Lab (EESC BC1011) | EESC BC1001x  |  |  |
| Earth, Origin, Evolution, Processes, Future \*\* (includes lab) | EESC UN1011y |  |  |
| Earth's Environmental Systems: Climate + lab | EESC UN2100x,y |  |  |
| Earth's Environmental Systems: Solid Earth + lab | EESC UN2200x,y |  |  |
| Earth's Environmental Systems: Life + lab (for students not planning on continuing in Biology) | EESC UN2300y |  |  |
| \*\*(If taken before Earth's Environmental Systems, UN2100, UN2200, or UN2300)  |  |

**Natural Science Electives**

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| --- | --- | --- | --- |
| Ecology  | BIOL BC2272x |  |  |
| Microbiology | BIOL BC3320x |  |  |
| Alternative Energy Resources | EAEE E2002x |  |  |
| Conservation Biology | EEEB UN3087 |  |  |
| Conservation and Preservation | EESC BC3001 |  |  |
| Brownfields | EESC BC3012y |  |  |
| Shorelines and Streams | EESC BC3013y |  |  |
| Field Methods in Environmental Science | EESC BC3014x |  |  |
| Environmental Measurements  | EESC BC3016x |  |  |
| Environmental Data Analysis  | EESC BC3017x |  |  |
| Forests and Environmental Change | EESC BC3021x |  |  |
| Hudson River: The Estuary, the River, Our Environment | EESC BC3023x |  |  |
| Hydrology | EESC BC3025x |  |  |
| Land-use, Bird and Plant Dynamics | EESC BC3026y |  |  |
| Urban Ecosystems  | EESC BC3027 | *New* |  |
| Volcanoes and the Environment | EESC BC3028 | *New* |  |
| Agricultural and Urban Land Use | EESC BC3032y |  |  |
| Waste Management | EESC BC3033x |  |  |
| Water, Sanitation and Health | EESC BC3043y |  |  |
| Big Data with Python: Python for Environmental Analysis and Visualization | EESC BC3050y |  |  |
| Earth Resources and Sustainable Development | EESC UN1600x |  |  |
| Science for Sustainable Development | EESC UN2330x |  |  |
| Fundamentals of Global Health | PUBH UN3100 |  |  |
| GIS for Sustainable Development | SDEV UN3390 |  |  |
| Spatial Analysis and Modeling for Sustainable Development | SDEV UN3450 |  |  |
| GIS Methods and Case Studies | URBS UN3200 |  |  |

**Other Electives**

|  |  |  |  |
| --- | --- | --- | --- |
| Anthropological Anthropocene | ANTH BC3861 |  |  |
| Climate Change, Global Migration & Human Rights in the Anthropocene | ANTH BC3932 |  |  |
| Culture and Environmental Behavior | ANTH V3971 |  |  |
| Environment and Development  | ANTH BC3973y |  |  |
| Political Ecology | ANTH UN4022 |  |  |
| City, Landscape, and Ecology | ARCH UN3120 |  |  |
| Nature & Power, Environmental History in North America | CSER UN3222 |  |  |
| Environment & Natural Resource Economics  | ECON BC3039 |  |  |
| Environmental and Natural Resource Economics | ECON BC3039 |  |  |
| The Global Economy | ECON UN2257 |  |  |
| Economics of the Environment | ECON UN4625y |  |  |
| Environmental Law | EESC BC3040y |  |  |
| Workshop in Sustainable Development | EESC BC3300x |  |  |
| History of Environmental Thinking | HIST BC4909 |  |  |
| America and the Natural World | HIST UN3938y |  |  |
| Environmental Politics | POLS V3212y |  |  |
| US Water and Energy Policy | SDEV GU4050 |  |  |
| Public Lands in American West | SDEV GU4350 |  |  |
| Environmental Policy and Governance | SDEV UN2050 |  |  |
| Challenges of Sustainable Development | SDEV UN2300 |  |  |
| Economics and Financial Methods for Sustainable Development | SDEV UN2320 |  |  |
| Global Food Systems | SDEV UN3200 |  |  |
| Ethics of Sustainable Development | SDEV UN3310y |  |  |
| Ecological and Social Systems for Sustainable Development | SDEV UN3330 |  |  |
| Climate Change and Law | SDEV UN3355 |  |  |
| Disasters and Development | SDEV UN3360 |  |  |
| Human Populations and Sustainable Development | SDEV UN3400 |  |  |
| Urbanization and Sustainability | SDEV UN3410 |  |  |
| Spatial Analysis and Modeling for Sustainable Development | SDEV UN3450 |  |  |
| Environmental Sociology | SOCI W3290 |  |  |
| Urban Ecology & Grand Infrastructure | URBS UN3464 |  |  |